FUJITSU

SPLIT TYPE
ROOM AIR CONDITIONER
WALL MOUNTED TYPE

SERVICE MANUAL

Indoor unit	Outdoor unit
ASU15RLQ	AOU15RLQ
ASU18RLQ	AOU18RLQ

Refrigerant R410A

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FUJITSU GENERAL LIMITED

SPECIFICATIONS

ELECTRICAL DATA

TYPE		COOL & HEAT INVERTER	
INDOOR UNIT		ASU15RLQ	ASU18RLQ
OUTDOOR UNIT		AOU15RLQ	AOU18RLQ
COOLING CAPACITY		4.38 kW 15,000 Btu/h	5.28 kW 18,000 Btu/h
HEATING CAPACITY		5.28 kW 18,000 Btu/h	6.30 kW 21,600 Btu/h
POWER SOURCE		208 V / 230 V	208 V / 230 V
FREQUENCY		60 Hz	60 Hz
RUNNING CURRENT	COOLING	5.9 A / 5.3 A	8.5 A / 7.7 A
	HEATING	7.0 A / 6.3 A	9.5 A / 8.6 A
INPUT WATTS	COOLING	1.20 kW	1.73 kW
	HEATING	1.43 kW	1.93 kW
E.E.R.	COOLING	3.66 kW/kW	3.05 kW/kW
COP	HEATING	3.69 kW/kW	3.28 kW/kW
MOISTURE REMOVAL		2.1 L/hr 4.4 Pt/h	2.8 L/hr 5.9 Pt/h
AIR CIRCULATION HIGH		700 m3/hr 412 cfm	700 m3/hr 412 cfm

NOISE LEVEL

INDOOR UNIT (Cool / Heat)	High	45 dB / 42 dB	
	Med	39 dB / 38 dB	
	Low	33 dB / 33 dB	
	Quiet	25 dB / 27 dB	
OUTDOOR UNIT (Cool / Heat)		49 dB / 49 dB	50 dB / 50 dB

COMPRESSOR AND REFRIGERANT

TYPE		Hermetic type, 4 pole, 3 phase, DC inverter motor, Rotary
DISCRIMINATION		DA130A1F - 25F
PRECHARGED REFRIGERANT		1,150 g 2-9/16 lbs.
REFRIGERANT TYPE		R410A
FULL CHARGE Pipe Length	15 m	1,150 g 2-9/16 lbs.
	20 m	1,250 g 2-3/4 lbs.
ADDITIONAL CHARGE		20 g/m 3/16 oz./ft.
MAXIMUM PIPING HEIGHT		15 m 49 ft.

DIMENSIONS

INDOOR UNIT	H x W x D	283 x 790 x 230 mm 11-1/8 x 31-1/8 x 9-1/16 inch
OUTDOOR UNIT	H x W x D	578 x 790 x 300 mm 22-3/4 x 31-1/8 x 11-13/16 inch

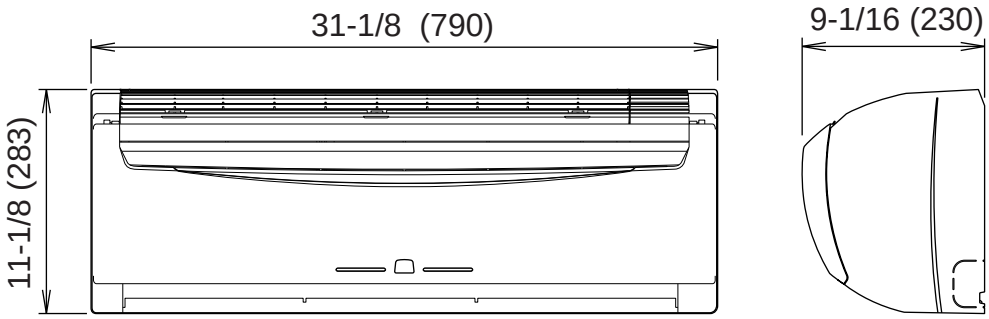
WEIGHT

INDOOR UNIT	Gross / Net	12.5 kg / 10 kg	28 lbs. / 22 lbs.
OUTDOOR UNIT	Gross / Net	44 kg / 40 kg	97 lbs. / 88 lbs.

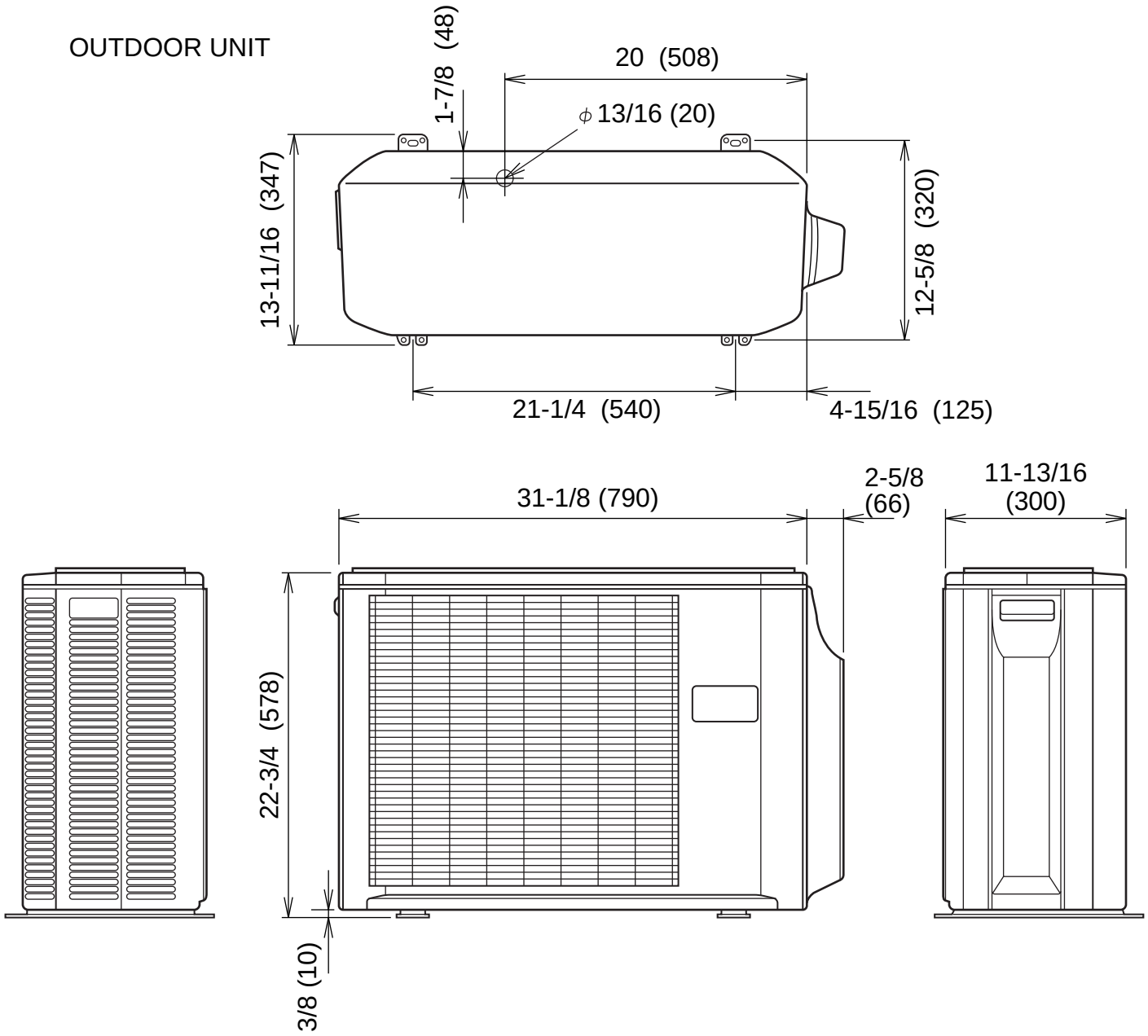
DIMENSIONS

unit : inch (mm)

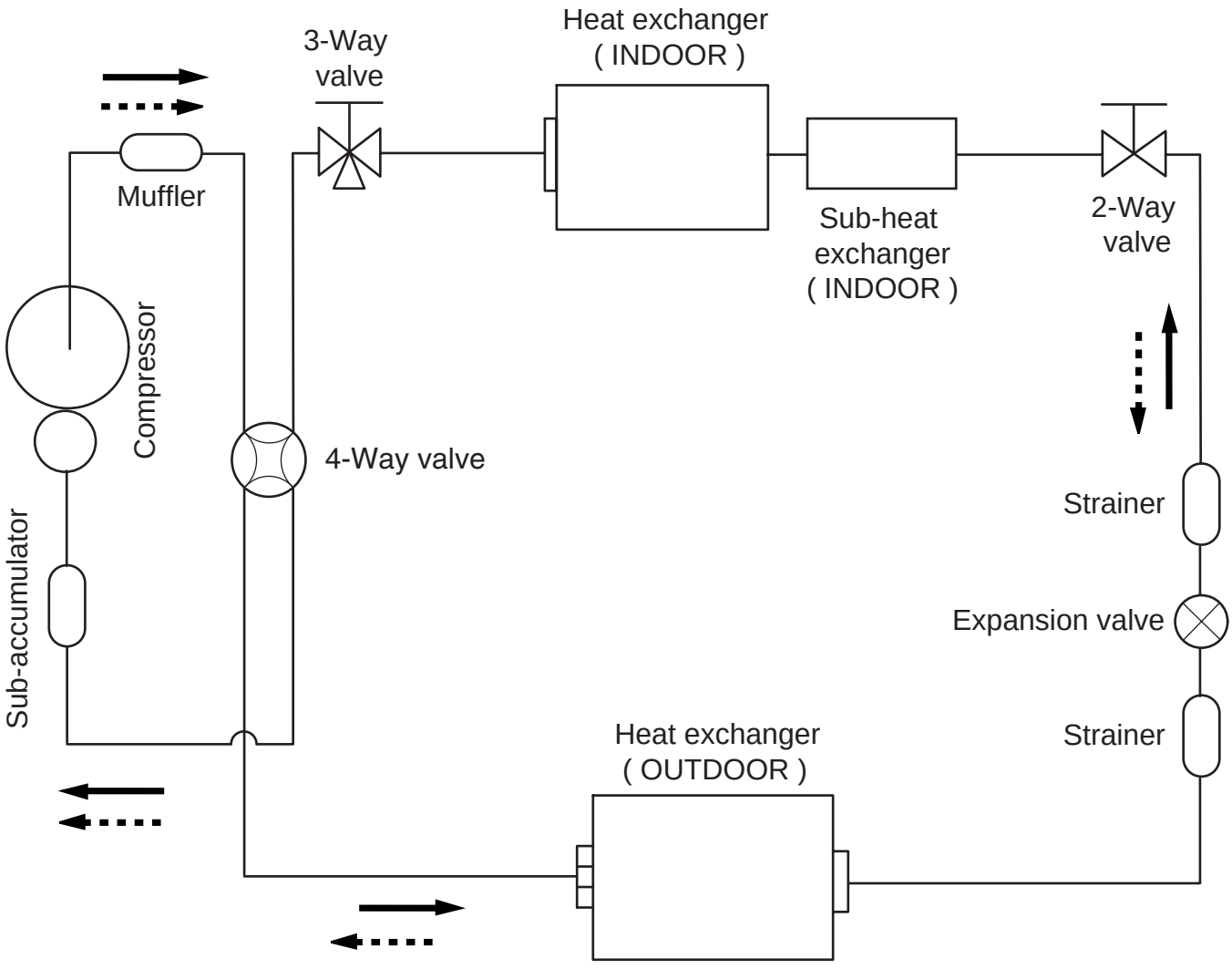
INDOOR UNIT



OUTDOOR UNIT



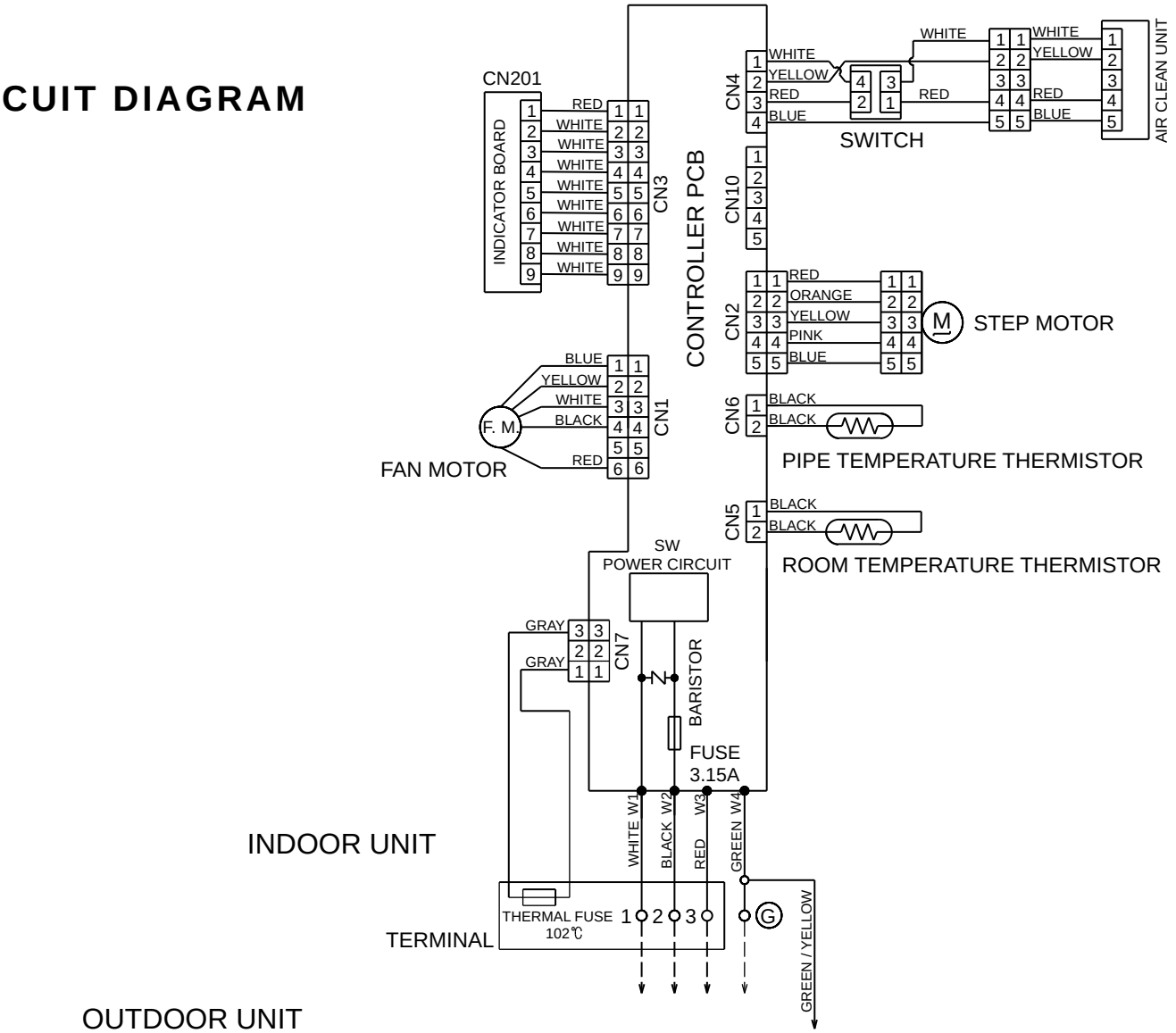
REFRIGERANT SYSTEM DIAGRAM

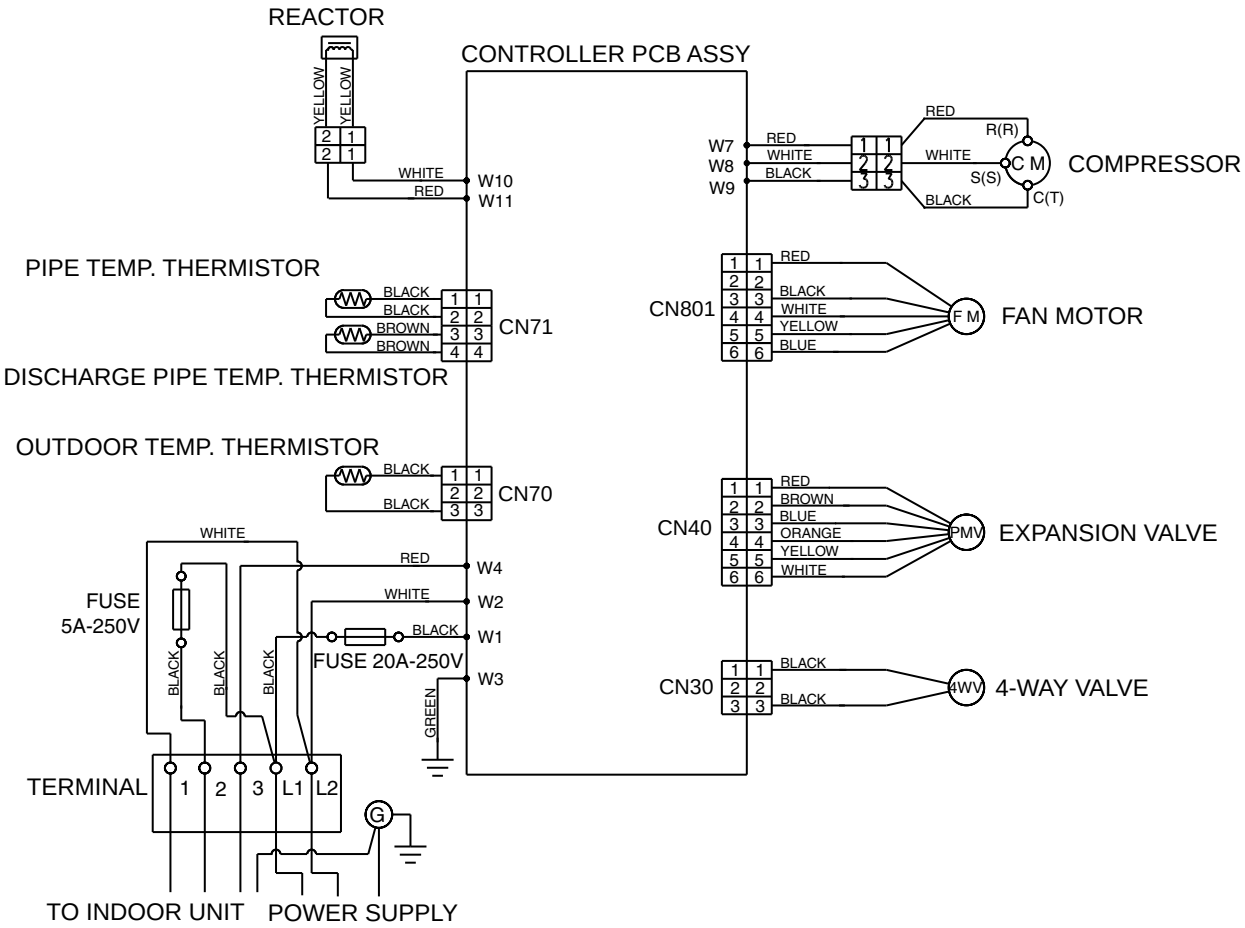


Cooling
Heating

Refrigerant pipe diameter
Liquid : 1/4" (6.35 mm)
Gas : 1/2" (12.7 mm)

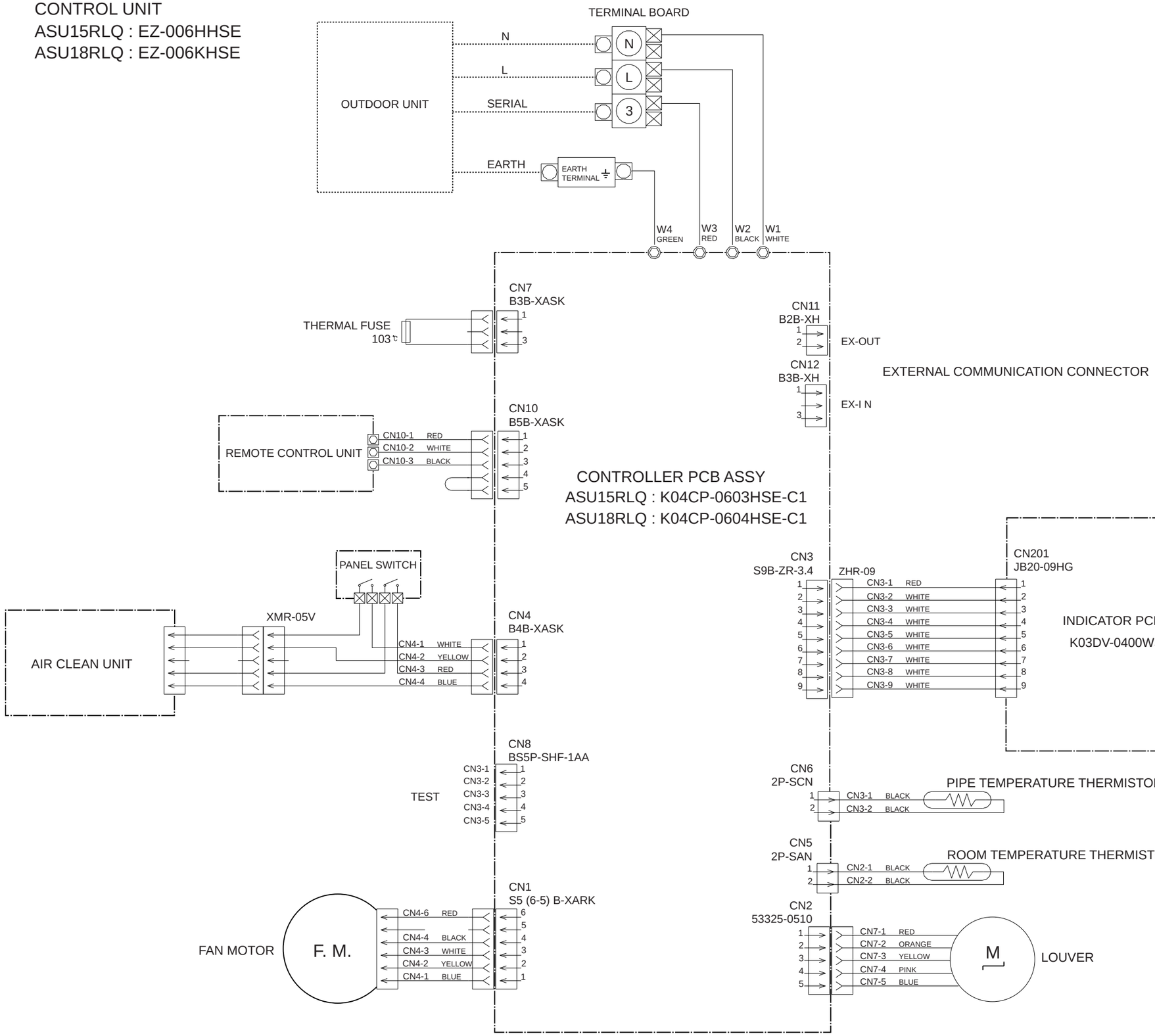
CIRCUIT DIAGRAM



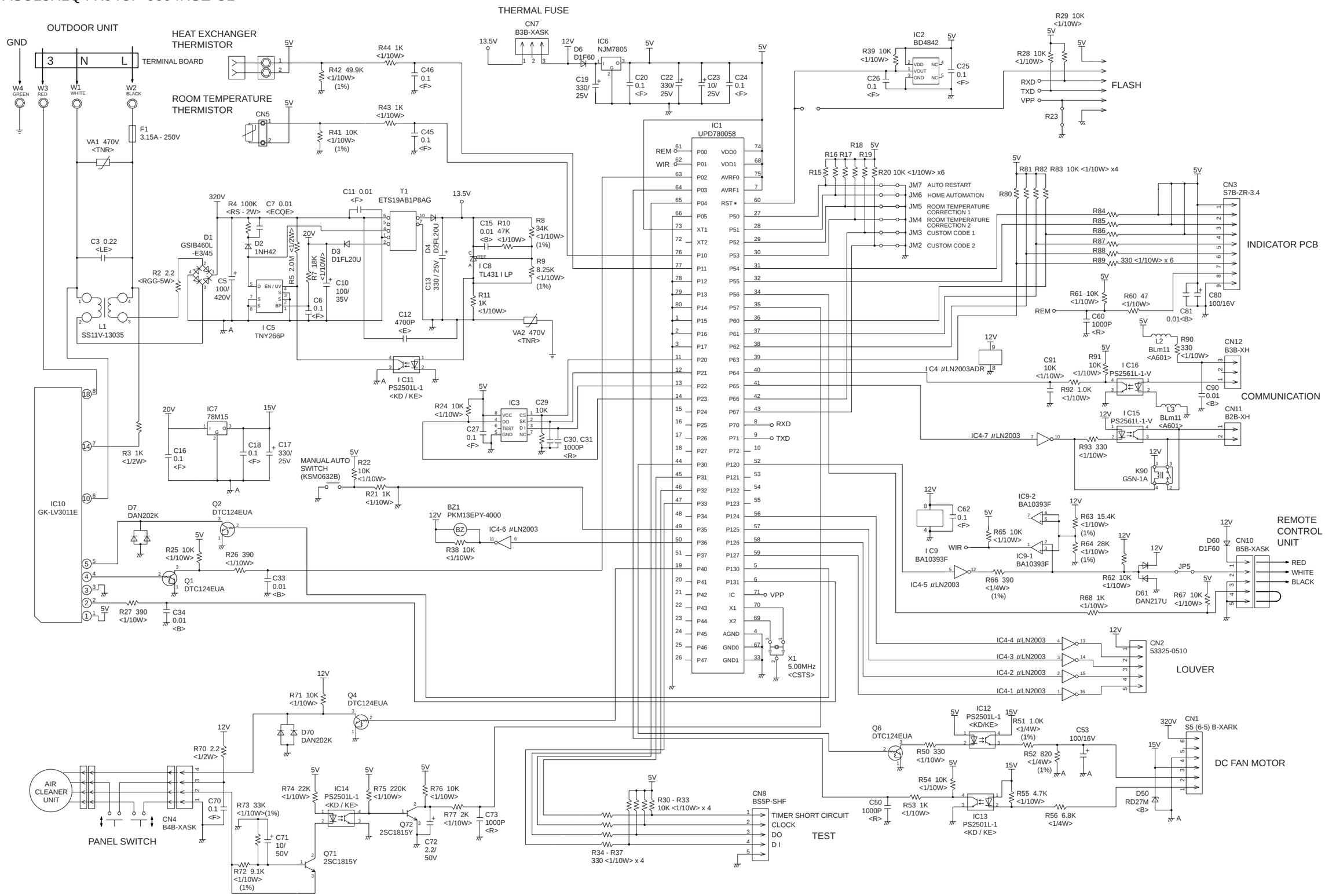


INDOOR PCB CIRCUIT DIAGRAM

CONTROL UNIT
ASU15RLQ : EZ-006HHSE
ASU18RLQ : EZ-006KHSE

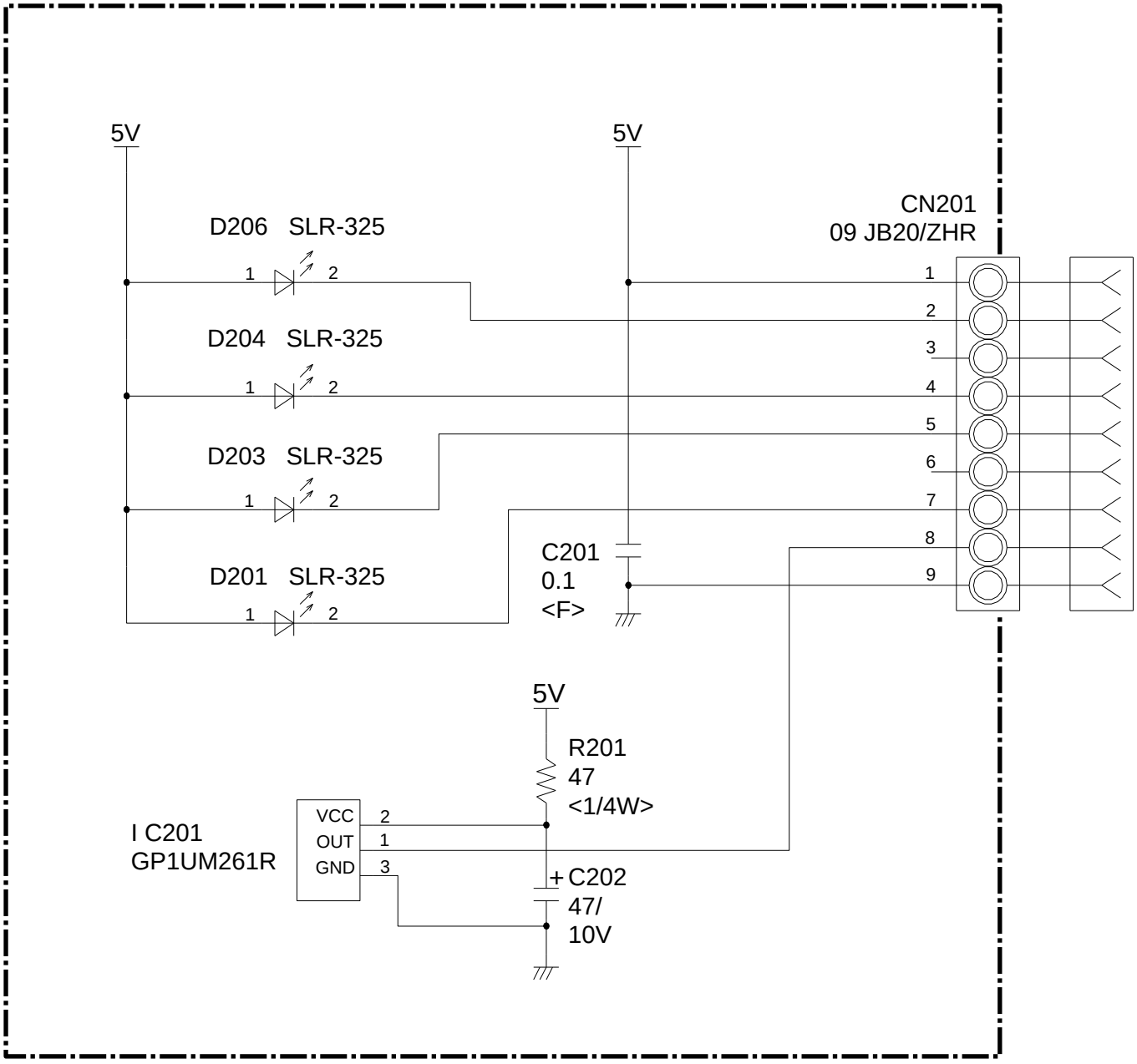


INDOOR UNIT
Controller PCB Assy
ASU15RLQ : K04CP-0603HSE-C1
ASU18RLQ : K04CP-0604HSE-C1



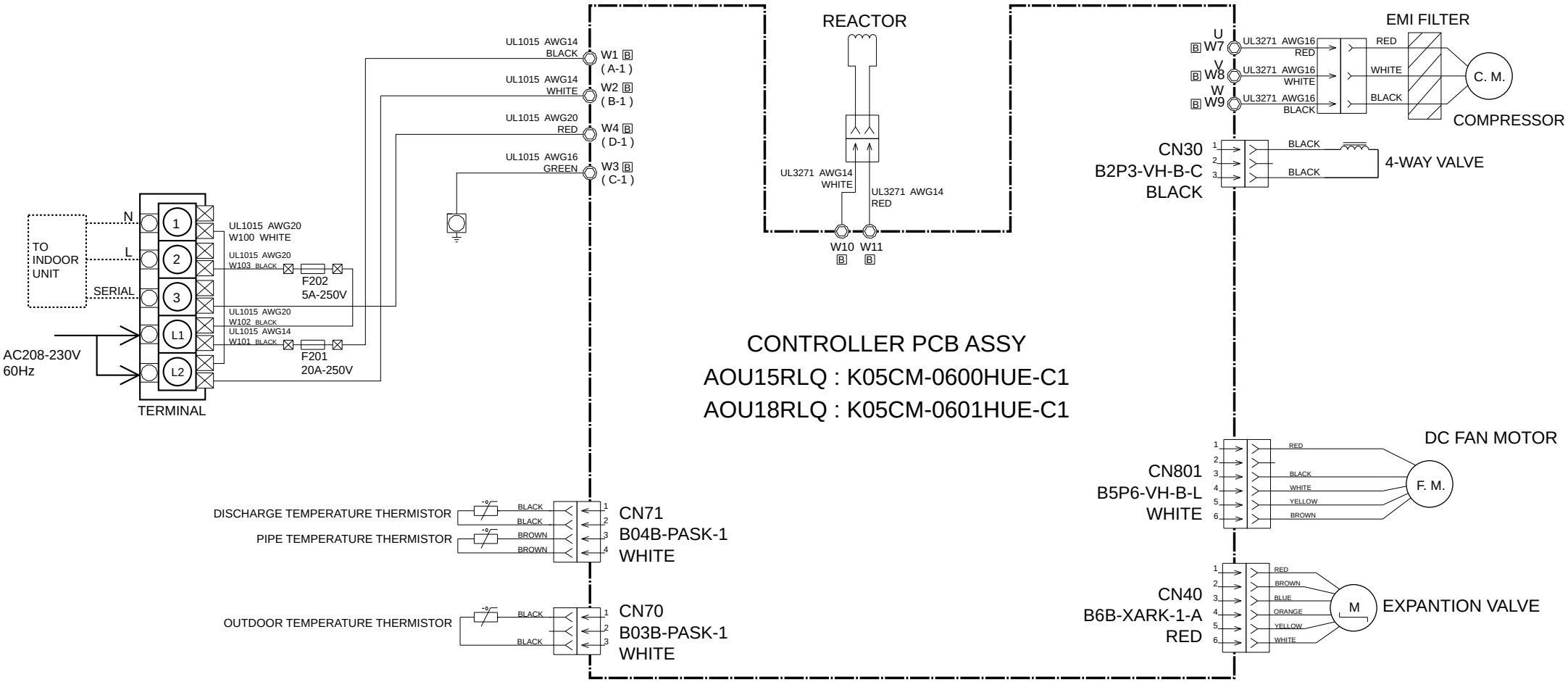
INDOOR UNIT

INDICATOR PCB ASSY
K03DV-0400WSE-D0

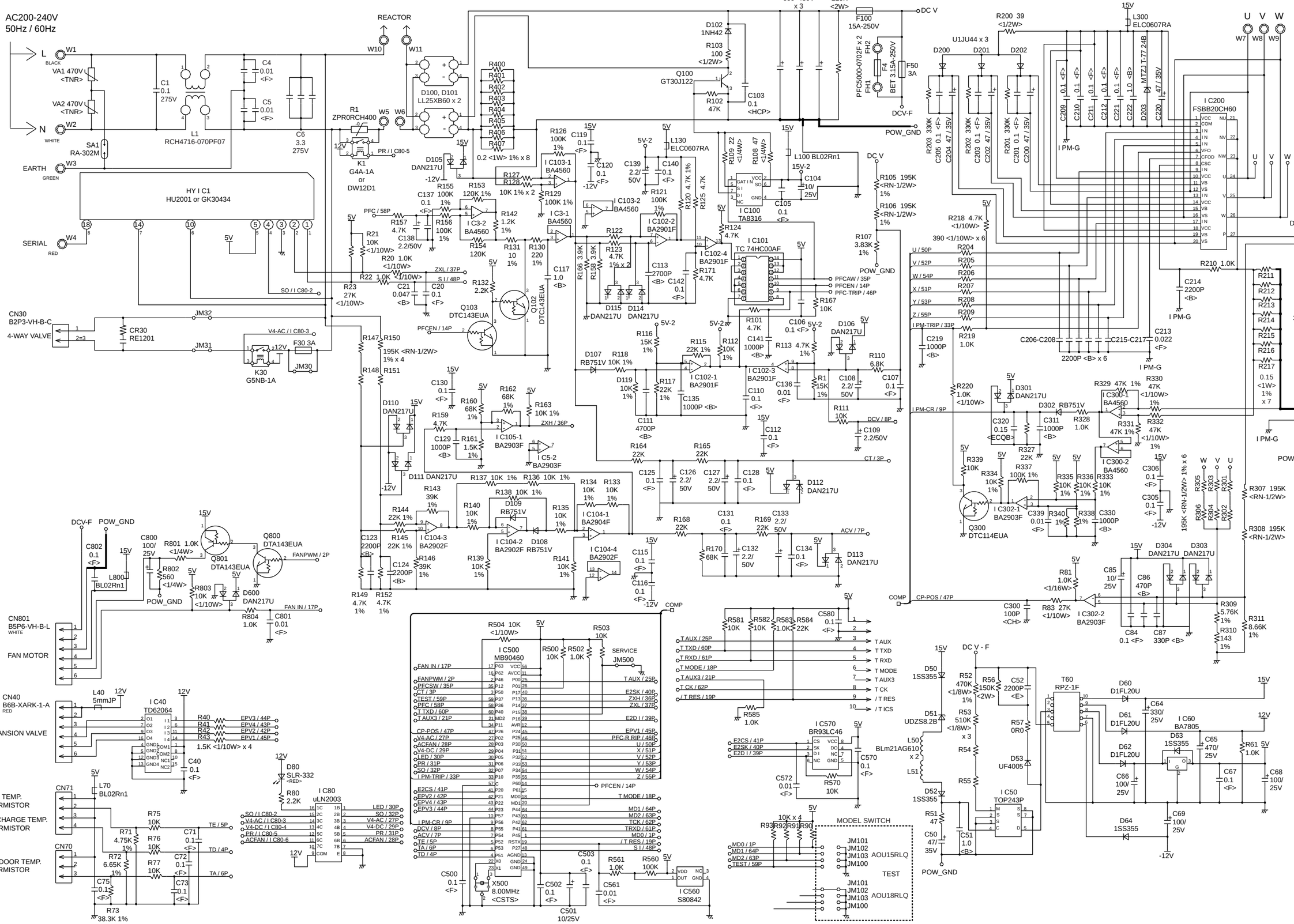


OUTDOOR PCB CIRCUIT DIAGRAM

INVERTER ASSEMBLY
AOU15RLQ : EZ-006CHUE
AOU18RLQ : EZ-006DHUE



OUTDOOR UNIT
Controller PCB Assy
AOU15RLQ : K05CM-0600HUE-C1
AOU18RLQ : K05CM-0601HUE-C1

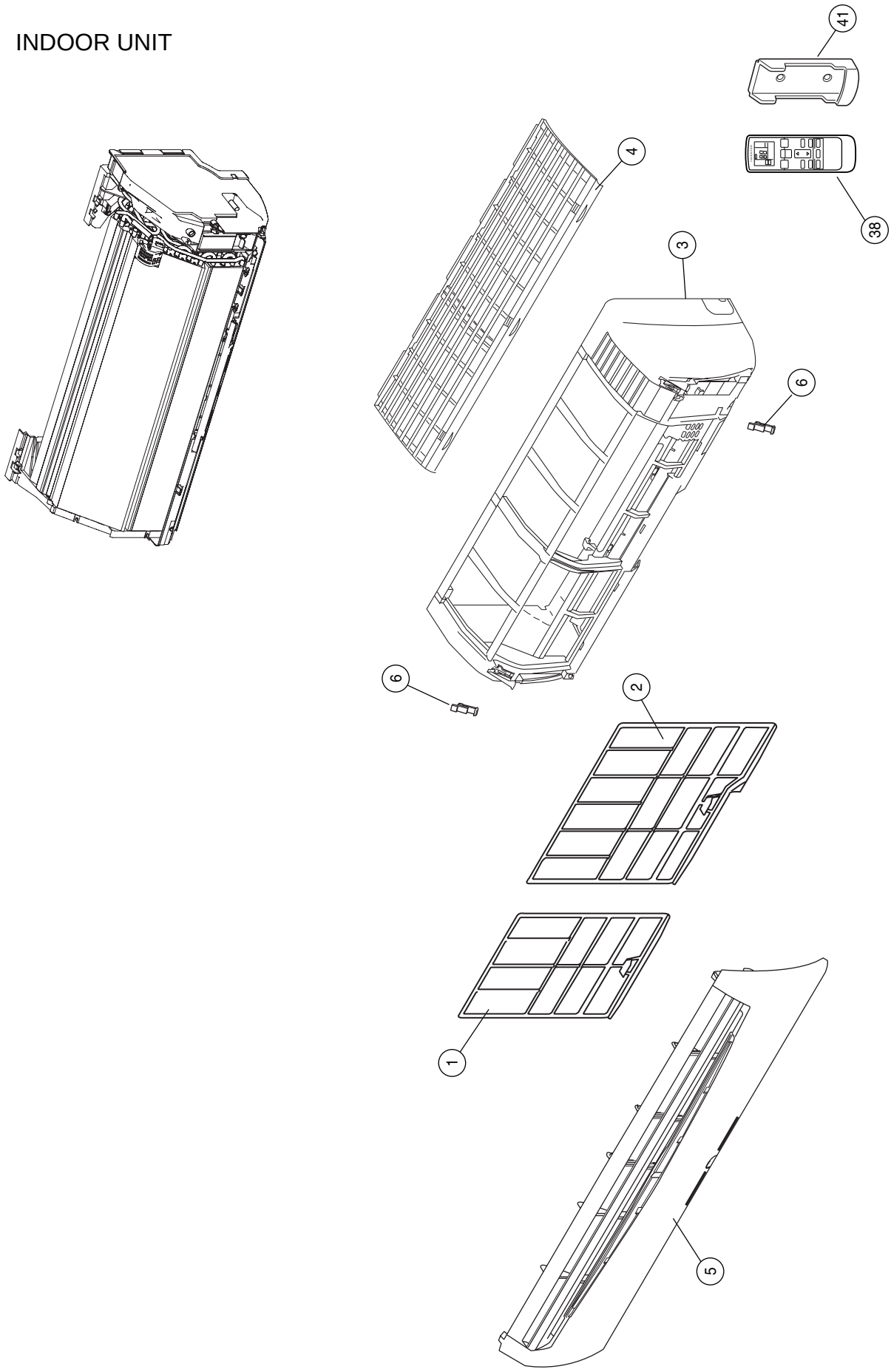


ERROR CONTENTS

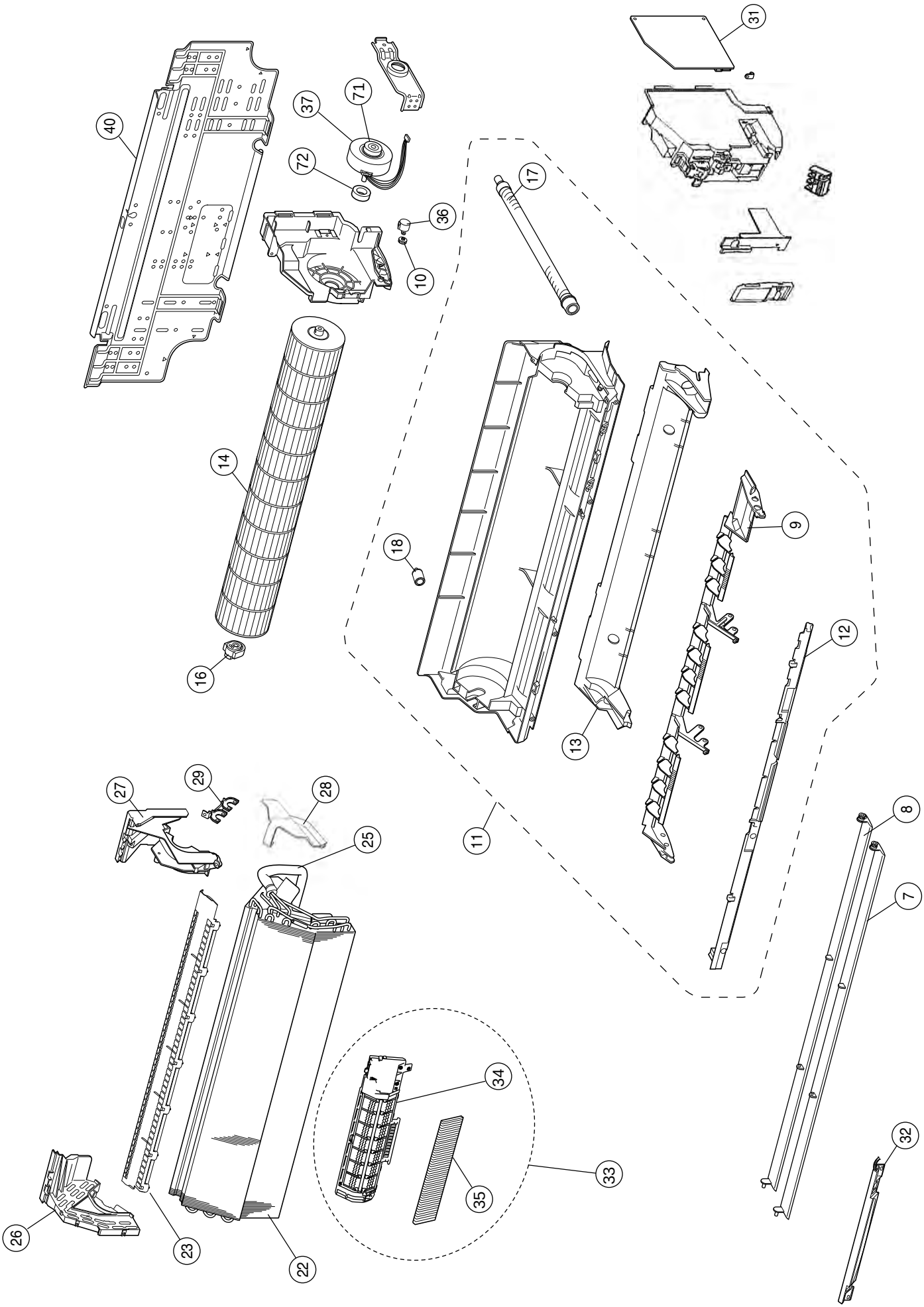
Error	Display		Error
	Operation LED	Timer LED	
Serial signal error	Off	2 flash	Serial signal (reverse) error, at operation start up
		3 flash	Serial signal (reverse) error, during operation
		4 flash	Serial signal (forward) error, at operation start up
		5 flash	Serial signal (forward) error, during operation
Indoor unit thermistor error	2 flash	2 flash	Indoor temperature thermistor open / short
		3 flash	Heat exchanger middle thermistor open / short
Outdoor unit thermistor error	3 flash	2 flash	Discharge thermistor open / short
		3 flash	Heat exchanger thermistor open
		4 flash	Outdoor temperature thermistor open / short
Indoor unit control error	4 flash	2 flash	Forced automatic SW welded
		3 flash	Main relay welded
		4 flash	Power interruption error
		7 flash	VDD permanent stop protection
		8 flash	reverse VDD permanent stop protection
Outdoor unit control error	5 flash	2 flash	Current trip error
		3 flash	CT abnormal
		5 flash	Compressor location detection error
		6 flash	Outdoor unit fan drive system abnormal
Indoor fan motor error	6 flash	2 flash	Abnormal lock
		3 flash	Abnormal rotation
Refrigerant cycle error	7 flash	2 flash	Discharge Temperature abnormal
		3 flash	Cooling high pressure abnormal rise
Optional function error	8 flash	4 flash	PFC circuit error
Model information error	0.1 sec on/off	0.1 sec on/off	Model information error

DISASSEMBLY ILLUSTRATION

INDOOR UNIT



INDOOR UNIT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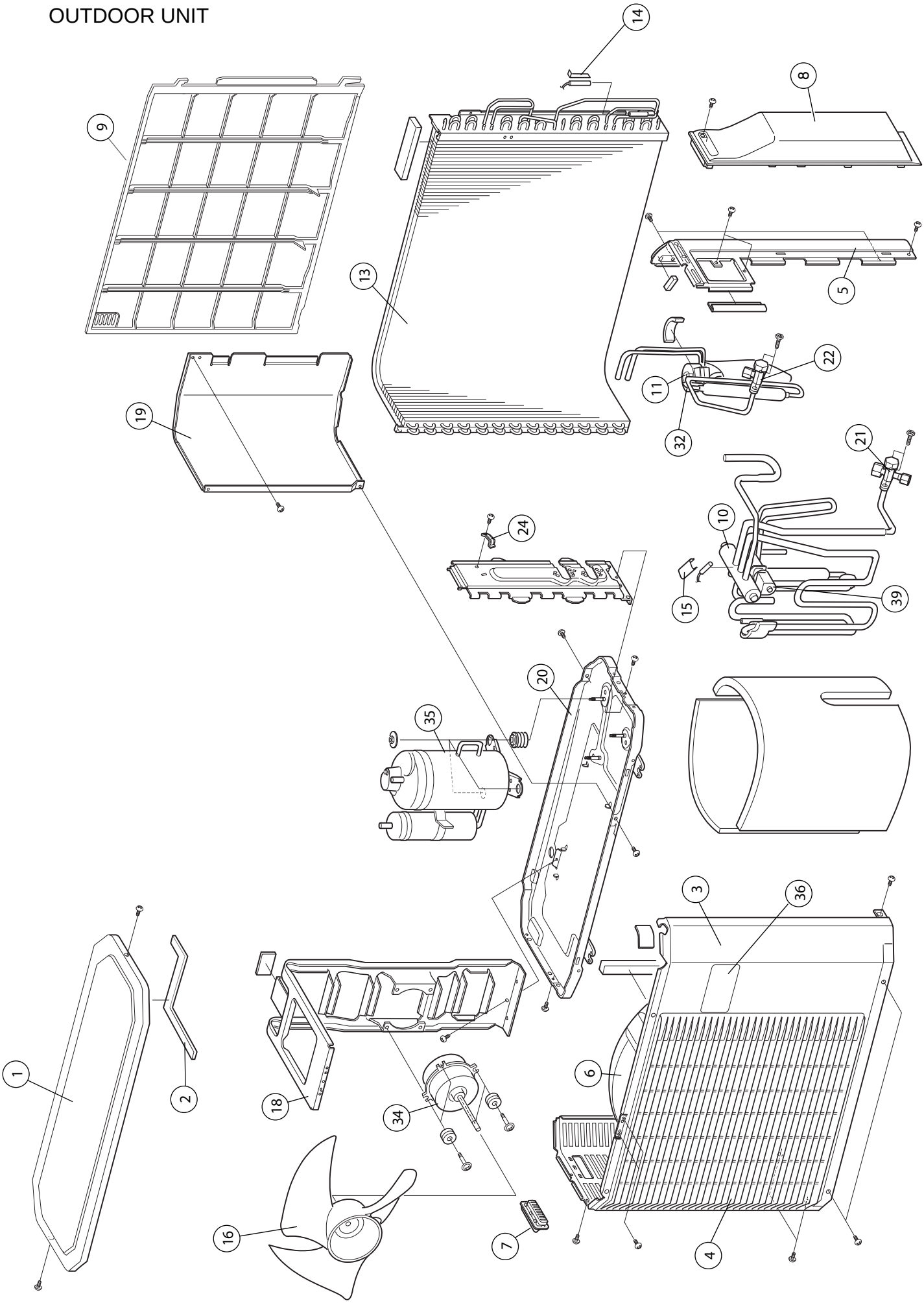
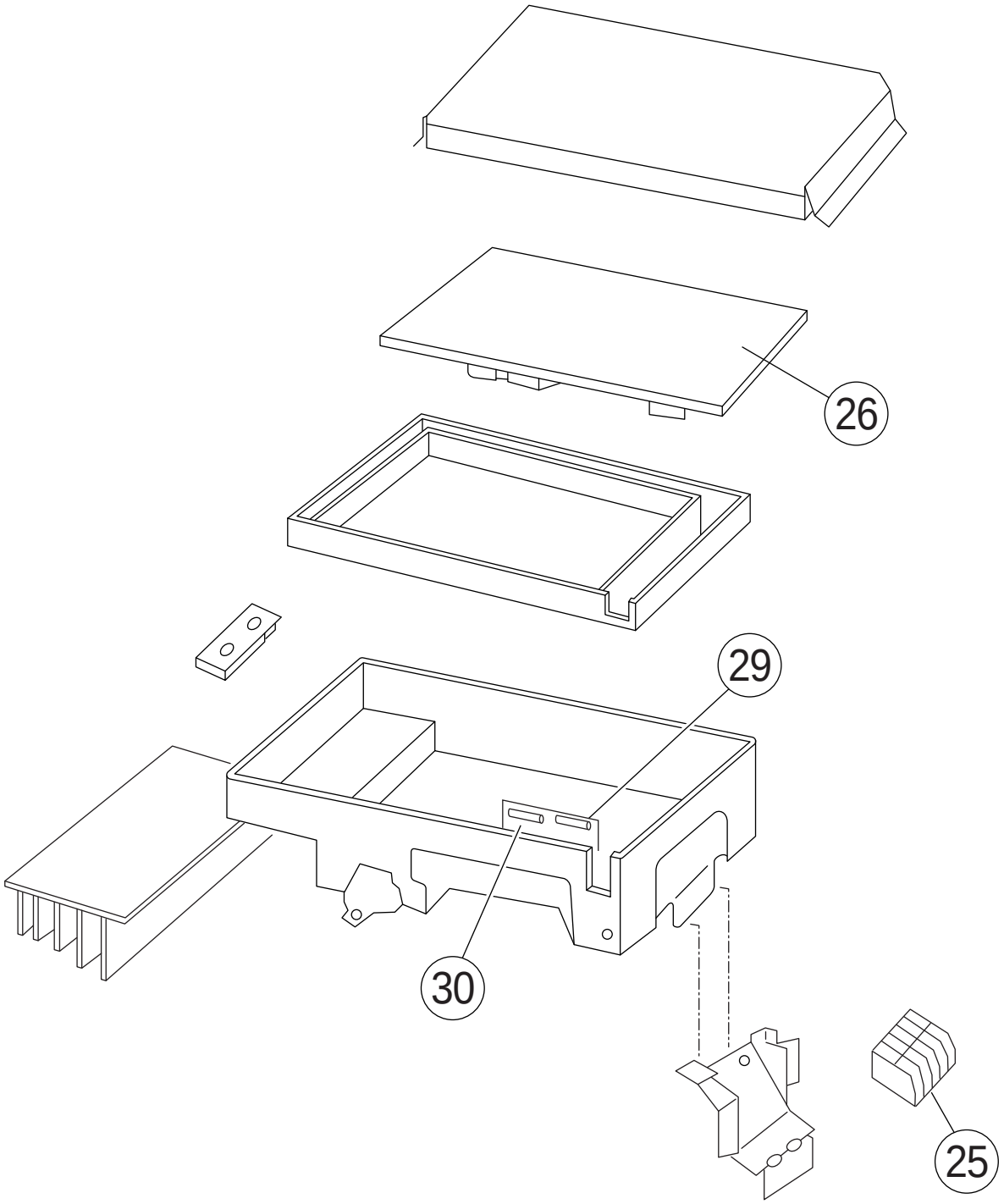
OUTDOOR UNIT



OUTDOOR UNIT



PARTS LIST

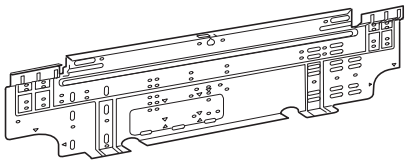
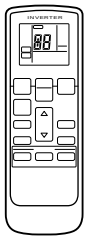
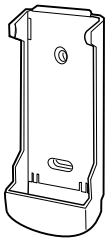
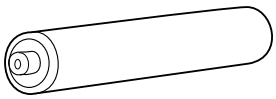
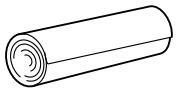
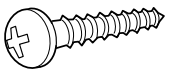
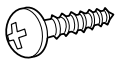
INDOOR UNIT

Ref.	Description	Part number	
1	Air Filter-L	9312920013	
2	Air Filter-R	9312921010	
3	Front Panel	9312914029	
4	Top Grill	9313948016	
5	Intake Grille Assy	9313157111	
6	Clamper (Grille)	9306755010	
7	Louver-U	9309991033	
8	Louver-Z	9309992030	
9	Holder (Louver) Assy	9309993013	
10	Gear-A	9309994003	
11	Casing Assy	9311354079	
12	Casing Cover F	9309987005	
13	Casing Cover B	9314160011	
14	Crossflow Fan Assy	9307836015	
16	Bearing-C Assy	9306628017	
17	Drain Hose Assy	9331394017	
18	Drain Cap Assy	9314493010	
22	Evaporator Total Assy	9313099015	
23	Filter Guide	9313920012	
25	H-Ins. (Pipe)-E	9304607007	
26	Evaporator Holder-L Assy	9313174019	
27	Evaporator Holder-R	9309983014	
28	Water Seal	9312912018	
29	Bracket (Eva.)	9310464007	
31	Controller PCB Assy (15)	9707193084	
31	Controller PCB Assy (18)	9707193091	
32	Indicator PCB Assy	9705375024	
33	Air Cleaner Assy	9313148034	
34	Air Cleaner Cartridge	9312966035	
35	Air Cleaner Filter	9373686040	
36	Stepping Motor	9900139025	
37	Fan Motor	9602109029	
38	Remote Control	9315027078	
40	Bracket Panel Assy	9310001004	
41	Remote Control Holder	9305642045	
71	Motor Cushion N	9312979011	
72	Motor Cushion NR	9313168018	
--	Room Thermistor	9700801108	
--	Pipe Thermistor	9702039042	
--	Transformer, Switch T1	9705054011	
--	Varister VA1	0000785020	
--	Fuse	0600386061	
--	Evaporator B Assy	9311275022	
--	Terminal	9701955114	
--	Push Switch	9703476013	
--	Case Display	9312917013	
--	Display Cover	9312918010	
--	Receiver Window	9312919017	
--	Holder (Outdoor Thermistor)	9307178023	

OUTDOOR UNIT

Ref.	Description	Part number	
1	Top Panel Assy	9309230057	
2	Top Panel Seal	9309228016	
3	Cabinet Assy	9314809040	
4	Blow Down Grille	9308884015	
5	Cabinet Right Assy	9309236011	
6	Fan Ring	9308885012	
7	Grip	9308880017	
8	Switch Cover	9315039019	
9	Protective Net	9315319012	
10	4-Way Valve Assy	9315726025	
11	Expansion Valve Assy	9311641018	
13	Condenser Total Assy	9311381037	
14	Thermistor Spring-A	313728262708	
15	Thermistor Spring	9300089012	
16	Propeller Fan	9309909014	
18	Motor Bracket	9308872012	
19	Separator Assy	9312971015	
20	Base Assy	9308869081	
21	3-Way Valve Assy	9315159014	
22	2-Way Valve Assy	9313064013	
24	Cord Clamp	9307271014	
25	Terminal	9703874024	
26	Inverter PCB Assy (15)	9707039139	
26	Inverter PCB Assy (18)	9707039146	
29	Fuse	0600382018	
30	Fuse	0600372163	
32	Expansion Valve Coil	9900057039	
34	Fan Motor	9602133017	
35	Compressor Assy	9313764012	
36	Emblem	9315261014	
39	Solenoid Coil	9970033025	
--	Intelligent Power Module	9705720015	
--	Thermistor Assy	9900148027	
--	Outdoor Temp. Thermistor	9900210045	

ACCESSORIES

Name and Shape	Part number
Wall hook bracket 	9310001004
Remote control 	9315027078
Remote control holder 	9305642045
Battery (penlight) 	0600185527
Cloth tape 	9310519004
Tapping screw (big) (ϕ 4 x 25) 	0700076046
Tapping screw (small) (ϕ 3 x 12) 	0700019036

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